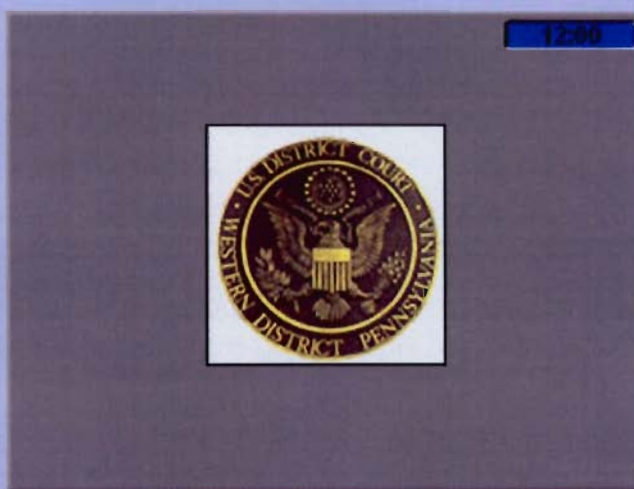


CART - START UP SCREEN

This screen appears on the Cart control panel when the system is initially turned on.



The System must be turned on using the Judge's or Deputy's control panels.

CART – MAIN SCREEN

This screen appears when you touch the Judge's or Deputy's **Power** button on the **System Start Up Screen**. Use this screen select any of the Cart Sources and to control their volume.



DOCUMENT CAMERA CONTROLS SCREEN

This screen appears when you touch the **Document Camera** button when on the **Main Screen**.



Document Camera Controls

Use the following controls to operate the Document Camera.

Power On/Off

Touch the **Power On/Off** button to turn the Document Camera On or Off as necessary.

Lamps

Touch any of the **Lamps** buttons to turn **On** or **Off** the lamps as necessary.

Focus

Touch the **Focus -** button to focus out and the **Focus +** button to focus in on an object.

Document Camera Controls (Continued)

Zoom

Touch the **Zoom -** push button to reduce the image. Touch the **Zoom +** push button to magnify the image.

Positive/Negative

Touch these push buttons to select between **Positive** and **Negative**. Use the positive mode to view materials such as printed matter or 3-D objects. Use the negative mode to view negative film as a positive image. This function is very useful for viewing 35 mm slides, X-rays, MRIs, and autoradiographs.

DVD/VCR CONTROLS SCREEN

This screen appears when you touch the **VCR/DVD** button when on the **Main Menu Screen**.



VCR/DVD Controls

Use the standard controls to operate the VCR/DVD player.

Play

Touch the **Play** button to play the DVD or VCR.

Stop

Touch the **Stop** button to stop the DVD or VCR.

Pause

Touch the **Pause** button to pause the DVD or VCR.

DVD / VCR Controls (Continued)

Rewind

Touch the **Rewind** button to rewind the VCR. Touching and holding the **Rewind** button will rewind the DVD at an increasing rate the longer the button is held. Touching and releasing the button will skip the DVD to the next chapter.

Fast Forward

Touch the **Fast Forward** button to Fast Forward the VCR. Touching and holding the **Fast Forward** button will Fast Forward the DVD at an increasing rate the longer the button is held. Touching and releasing the button will return the DVD to the previous chapter.

Menu

Touch the **Menu** button to access the DVD menu.

Arrows

Touch the **Arrow** buttons to navigate the DVD menu screens.

Enter

Touch the **Enter** button to accept a DVD menu selection.

VCR

Touch the **VCR** button to select the VCR as the source.

DVD

Chapter 5:

Operating the System Components

The Integrated Evidence Presentation System is comprised of the following equipment:

- ACE's Communicator 21 (document camera)
- DVD/VCR Player
- Auxiliary Inputs
- ACE's Annotation Monitor
- ACE's Interpretation System
- Infrared Headphones
- Reporter Headphone

This chapter describes how to operate the system components. For a detailed explanation of the system components, please refer to the *Electronic Courtroom Operations and Maintenance Manual*.

ACE'S COMMUNICATOR 21



ACE's Communicator 21 is an easy-to-operate and portable evidence presentation system. This unit is equipped with a high-resolution CCD camera and features a 12:1 magnification zoom lens and a high accuracy auto focusing system. The Communicator presents all types of materials to view or record through monitors, e.g. 3-D objects, paper documents, transparencies, X-rays, etc.

Turning On the Communicator

1. If not already powered ON, turn "ON" the power switch of your Communicator.
 - Connection to the monitor should be previously executed.
2. Select the Communicator by pressing the Document Camera icon on the control panel.

Simple Steps for Viewing an Object

1. Place the object on the white stage. If necessary, press the **LAMP** button until the upper lamps light.
2. While you observe the image, adjust the zoom to obtain the optimum size.
3. Fine-tune the image using the manual focus.
 - Pay attention to depth of field with 3-Dimensional objects. You may need to focus again, or even to rotate the camera head and remove the close-up lens to focus from a distance (this is only for a very large object.)

Simple Steps for Viewing Transparencies or Slide Film

1. Place the transparency or slide on the white stage.
2. If necessary, press the **LAMP** button until the built-in base-light box illuminates.
3. For 35mm negatives, press and hold the column lock button (located in the bottom of the camera arm), then set the camera head to its lowest position.
4. Press the **NEGA/POSI** conversion button on the remote control. The indicator will show (N) (negative) mode. You may want to adjust the iris to over expose for a better color reproduction.
5. When turning off the base light box, press the **LAMP** button again.

For Use as a Conventional Video Camera

1. Remove the close-up lens when you are shooting the object at a distance.
2. The camera head can be rotated to the horizontal position. This allows you to present images from far away.

Communicator Functions

LIGHTING

The **LAMP** button is used to turn on/off the lighting units. There are two lighting units. They are as follows:

- **Upper:** The upper lighting unit is used for viewing materials such as printed matter and 3-D objects.
- **Base:** The base light box is used for viewing slides, transparencies, X-rays, etc.

INPUT SELECTION

The **INT/EXT** button let you select the input you would like to show on the monitors or to change the input line. There are two input selector options. They are as follows:

INT: Displays whatever is in the view of the Communicator.

EXT: Inputs from an external AV source are available for projection on the monitors.

NEGATIVE/POSITIVE CONVERSION

This function is used to view negative film as a positive image. Press the **POSI/NEGA** conversion button (on the remote control), and the indicator shows (N) (negative). If you press the button again, it changes to normal (P) (positive) mode. This is a very useful function for viewing 35mm slides, X-rays, MRIs and autoradiographs

ZOOM

The zoom function lets you adjust the image size and zoom into a specific section. When (+) is pressed, the image gets larger (zoom in). When (-) is pressed, the image gets smaller (zoom out).

FOCUS

It is difficult to focus on objects under the following conditions:

- Objects bearing little contrast
- Objects with a fine repeated pattern such as lateral stripes, or a checkered pattern
- Bright objects or ones reflecting strong light
- The background of the object is bright
- Picture itself is dark
- Moving objects.

You need to manually focus in order to clearly view objects in these conditions.

MANUAL FOCUS

To manually focus on an object, press the **FOCUS (N)** or **FOCUS (F)** button on the remote control. For instance, this function may be used to view 3-D objects of which any part can be focused.

DVD/VCR PLAYER

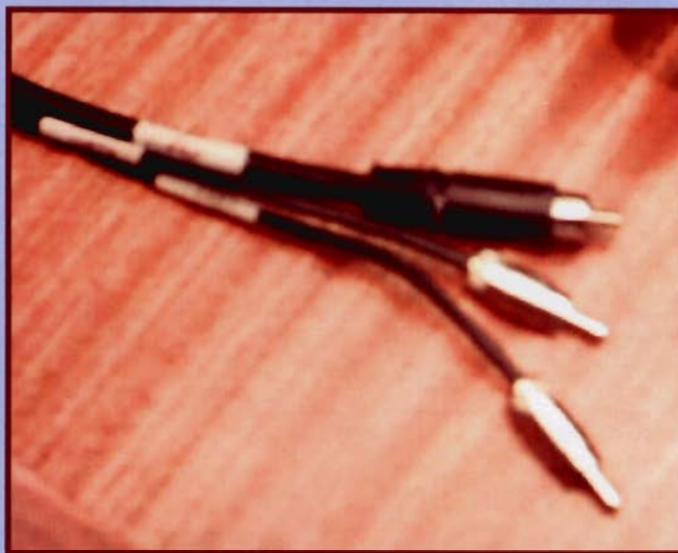
The optional DVD/VCR in the video system plays either DVD, VHS or S-VHS video-tapes. The superior quality of the S-VHS reduces video noise and produces a high quality picture.



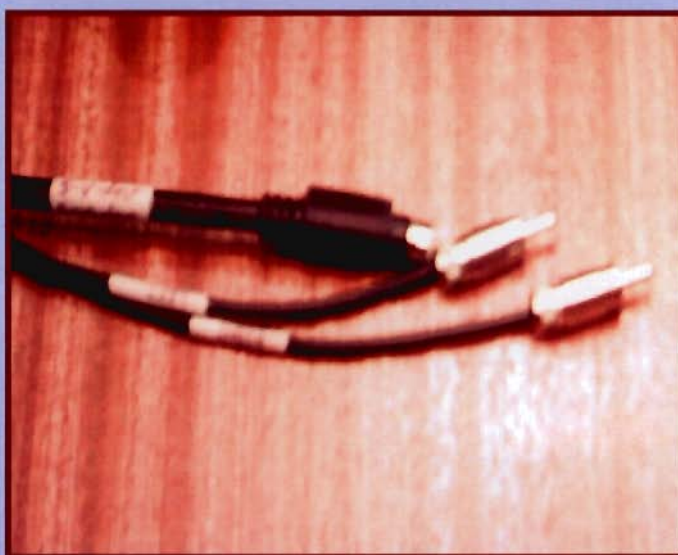
The playback DVD/VCR can be controlled at any of the control panels using the Transport buttons. Make sure you load the desired disc or tape and verify that the unit is powered ON.

AUXILIARY INPUTS

Auxiliary Video and S-Video Inputs are provided at the Cart location.



Simply plug in the Auxiliary device such as a Video Camera or a MP3 player and select the associated source on the control panel to display it through out the courtroom.



ACE'S ANNOTATION MONITOR

The annotation monitor allows a witness to easily make on-screen annotations with the touch of a finger.



Annotations can be made by pressing lightly and dragging with your finger similarly to using a pen. The monitor's corners activate special functions as described below.



UNDO: Tapping the **top right corner** of the monitor will delete the annotations one at a time, beginning with the most recent.



CLEAR SCREEN: Tapping the **lower right corner** of the monitor will remove all annotations.



CHANGE COLOR: Tapping the **lower left corner** of the monitor will cycle through the available colors that can be used for annotations. The colored swatch that appears on the screen will be the active color, and will change as the corner is tapped.

Annotation Monitor Calibration

If on-screen annotations do not line up under the finger, or if the annotation feature does not function, calibration may be required. To calibrate a monitor, please follow the instructions below:

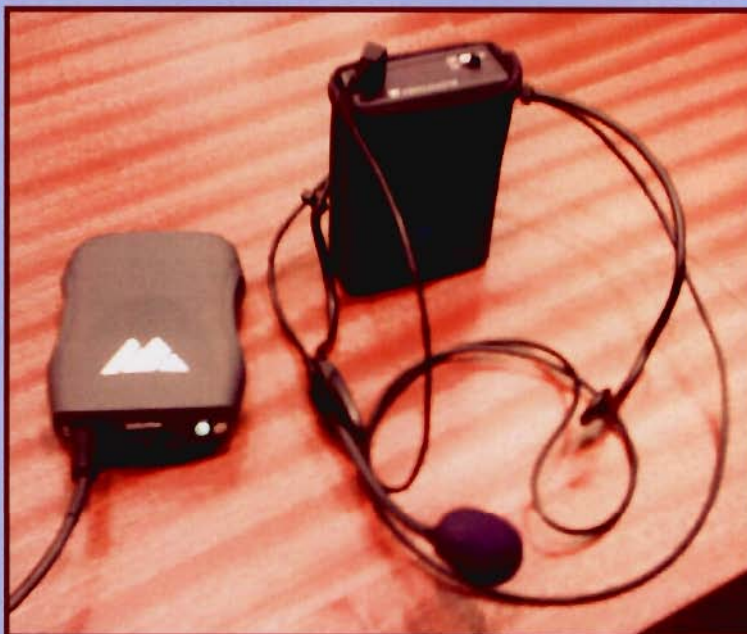
1. Tap the top center of the monitor. The MAIN menu appears.
2. Tap the COMM PORT DEVICES option. The COMM DEVICES menu appears.
3. Tap the CALIBRATION option. The CALIBRATION menu appears.
4. Tap the TOUCH SCREEN CALIBRATION option. Follow the calibration instructions that are displayed on the screen. After performing the final calibration instruction, the MAIN menu reappears.
5. Tap the EXIT option to return to the annotation screen.



If the MAIN menu does not appear when tapping the front center of the monitor, tap the top center of another monitor if one is available. The MAIN menu will appear on all monitors. Perform steps 2 and 3. Return to the monitor in need of calibration and perform steps 4 and 5.

ACE'S INTERPRETATION SYSTEM

The ACE Interpretation System routes language translations from an interpreter to the witness/defendant's headphones.



Interpreter Headset and Receiver

INTERPRETER HEADPHONE

The Interpreter wears the Headset pictured above making sure there are fresh batteries and the ON/Off switch is in the On position.

INTERPRETER RECEIVER

The receiver has a input cable plugged in under the Deputy/Reporter Bench. Verify that this cable is connected, the unit is On and the volume is turned up.

VOLUME

Turn this knob to adjust the volume to the IR Headset described below. A typical setting of between 5 and 7 should be used.

INFRARED HEADPHONES

The Infrared Headphones are used as an assisted listening device for the hearing impaired, or, when used in conjunction with the Interpreter Box, for language interpretations.



In order to achieve the best reception possible, make sure the person wearing the headphones is facing the infrared emitter.

When not in use, place the headphones in their charger in order to recharge the battery. The charger also holds spare batteries.

Use a new battery if the current one has been drained by extended use.

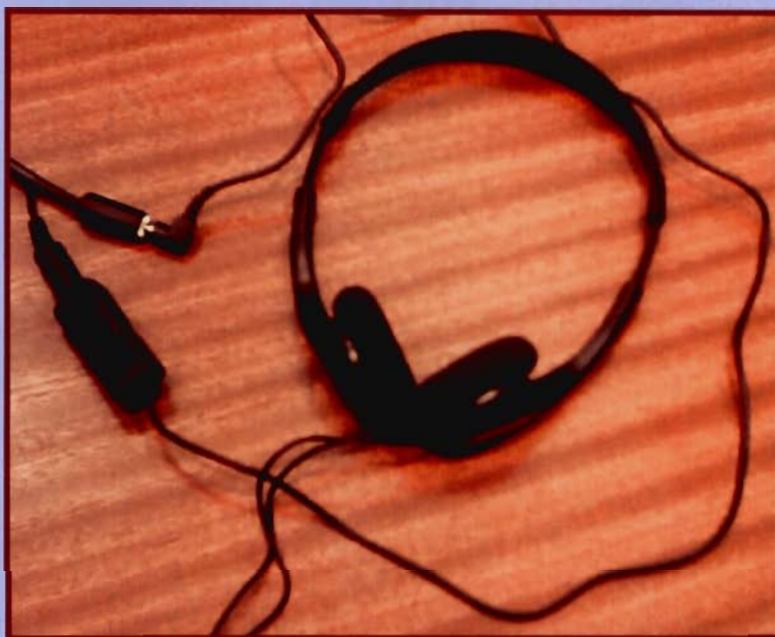
Channel Selector Switch

The infrared headphones have a selector switch that is used for assisted listening or language interpretation. The following are the switch audio settings:

- A. Interpretation audio input (both ears).
- B. Full audio input court mix (both ears)
- A/B. Full court mix plus interpretation audio input (one in each ear).

REPORTER'S HEADPHONE

The Reporter's headphone is to be plugged into the 1/8" connector provided at the bench.



VOLUME

The Headphone has a volume slider that can be adjusted for each reporters desired level.



Note:

The Sidebar Mic as well as a Full Mix of the Courtroom will always be heard on the Reporter's Headphone.